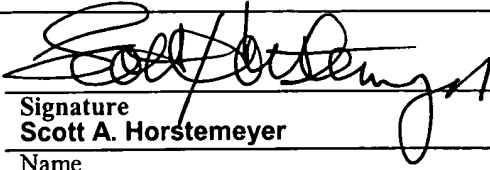
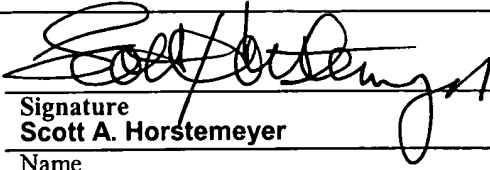
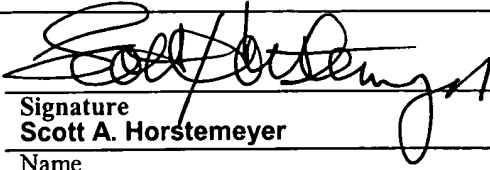


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

| | | | |
|---|--|---|--|
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER 052317-1010 | |
| INTERNATIONAL APPLICATION NO. PCT/EP/2003/010973 | | INTERNATIONAL FILING DATE 02 October 2003 (02/10/2003) | |
| U.S. APPLICATION NO. (IF KNOWN) 10/529450 | | PRIORITY DATE CLAIMED 02 October 2002 (02/10/2002) | |
| TITLE OF INVENTION MIPPI HOMOLOGOUS NUCLEIC ACIDS AND PROTEINS INVOLVED IN THE REGULATION OF ENERGY HOMEOSTATIS | | | |
| APPLICANT(S) FOR DO/EO/US: Karsten Eulenberg and Gunter Bronner | | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | | |
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)). <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). | | | |
| Items 11 to 20 below concern document(s) or information included: | | | |
| <ol style="list-style-type: none"> 11. <input type="checkbox"/> An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input checked="" type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825. 18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 1.54(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: Sequence Listing Verification and Hard Copy of Sequence Listing, copy of the International Search Report. | | | |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

| U.S. APPLICATION NO. (IF KNOWN) 10/529450 | | INTERNATIONAL APPLICATION NO. PCT/EP2003/010973 | | ATTORNEY'S DOCKET NO.: 052317-1010 | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|---|---|---|-----------------------|--|--|----------------------|---------------|---------------------|-----------------------|---|---------|----------|------------|--|--|-----|----------|--|--|----------|--|----------|--|----------|--|
| The following fees are submitted: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. <input checked="" type="checkbox"/> Basic national fee\$300.00 22. <input checked="" type="checkbox"/> Examination Fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33 (1)-(4)\$100.00 All other situations\$200.00 23. <input checked="" type="checkbox"/> Search Fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority\$100.00 International Search Report prepared and provided to the Office\$400.00 All other situations\$500.00 TOTAL OF 21, 22, and 23 = | | | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">CALCULATIONS</th> <th style="text-align: left;">PTO USE ONLY</th> </tr> <tr><td>\$300.00</td><td></td></tr> <tr><td>\$200.00</td><td></td></tr> <tr><td>\$400.00</td><td></td></tr> <tr><td>\$900.00</td><td></td></tr> <tr><td>\$0</td><td></td></tr> <tr><td>\$0</td><td></td></tr> <tr><td>\$130.00</td><td></td></tr> </table> | | CALCULATIONS | PTO USE ONLY | \$300.00 | | \$200.00 | | \$400.00 | | \$900.00 | | \$0 | | \$0 | | \$130.00 | | | | | | | |
| CALCULATIONS | PTO USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| \$130.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 pages (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250.00 for each additional 50 sheets of paper or fraction thereof. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Total Sheets</th> <th>Extra Sheets</th> <th>Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th>RATE</th> </tr> <tr> <td>67 - 100 =</td> <td>0/50 =</td> <td>0</td> <td>X \$250.00</td> </tr> </table> | | | | Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | 67 - 100 = | 0/50 = | 0 | X \$250.00 | <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>\$0</td><td></td></tr> <tr><td>\$130.00</td><td></td></tr> </table> | | \$0 | | \$130.00 | | | | | | | | | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | | | | | | | | | | | | | | | | | | | | | | | | |
| 67 - 100 = | 0/50 = | 0 | X \$250.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| \$130.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> </tr> <tr> <td>Total claims</td> <td>36 - 20 =</td> <td>16</td> <td>x \$50.00</td> </tr> <tr> <td>Independent claims</td> <td>5 - 3 =</td> <td>2</td> <td>x \$200.00</td> </tr> <tr> <td colspan="3">Multiple Dependent Claims (check if applicable).</td> <td>\$360.00</td> </tr> </table> | | | | CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | Total claims | 36 - 20 = | 16 | x \$50.00 | Independent claims | 5 - 3 = | 2 | x \$200.00 | Multiple Dependent Claims (check if applicable). | | | \$360.00 | <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>\$800.00</td><td></td></tr> <tr><td>\$400.00</td><td></td></tr> <tr><td>\$360.00</td><td></td></tr> </table> | | \$800.00 | | \$400.00 | | \$360.00 | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | | | | | | | | | | | | | | | | | | | | | | | |
| Total claims | 36 - 20 = | 16 | x \$50.00 | | | | | | | | | | | | | | | | | | | | | | | | |
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| Multiple Dependent Claims (check if applicable). | | | \$360.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| \$800.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| \$400.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| \$360.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$2590.00 | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. | | | | \$1295.00 | | | | | | | | | | | | | | | | | | | | | | | |
| SUBTOTAL = | | | | \$1295.00 | | | | | | | | | | | | | | | | | | | | | | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | | | \$0 | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL NATIONAL FEE = | | | | \$1295.00 | | | | | | | | | | | | | | | | | | | | | | | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) \$40.00 per property | | | | \$0 | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL FEES ENCLOSED = | | | | \$1295.00 | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%; text-align: center;">Amount to be refunded</td> <td style="width: 50%; text-align: center;">\$</td> </tr> <tr> <td></td> <td style="text-align: center;">Amount to be charged</td> <td style="text-align: center;">\$</td> </tr> </table> | | | | | Amount to be refunded | \$ | | Amount to be charged | \$ | | | | | | | | | | | | | | | | | | |
| | Amount to be refunded | \$ | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Amount to be charged | \$ | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. <input type="checkbox"/> A check in the amount of _____ to cover the above fees is enclose. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 20-0778. A duplicate copy of this sheet is enclosed. d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEND ALL CORRESPONDENCE TO: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scott A. Horstemeyer Thomas, Kayden, Horstemeyer & RISLEY, L.L.P. 100 Galleria Parkway, Suite 1750 Atlanta, Georgia 30339 (770) 933-9500 (Phone) (770) 951-0933 (Fax) | | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"></td> </tr> <tr> <td>Signature Scott A. Horstemeyer</td> </tr> <tr> <td>Name</td> </tr> <tr> <td>34,183</td> </tr> <tr> <td>Registration Number</td> </tr> <tr> <td>March 28, 2005</td> </tr> <tr> <td>Date</td> </tr> </table> | | |  | Signature Scott A. Horstemeyer | Name | 34,183 | Registration Number | March 28, 2005 | Date | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Signature Scott A. Horstemeyer | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34,183 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Registration Number | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| March 28, 2005 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | | | | | | | | | | | | | | | | | | | | | | | | | | | |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: **Eulenberg, et al.**For: **MIPP1 Homologous Nucleic Acids and Proteins Involved in the Regulation of Energy Homeostatis****CERTIFICATE OF EXPRESS MAIL**

Mail Stop PCT (DO/EO/US)
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

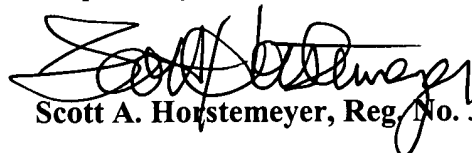
Sir:

Enclosed for filing in the above case are the following documents:

Return Postcard
Transmittal Letter to the US Designated Office
(DO/EO/US) (2 Pages)
Copy of Published PCT Application Consisting of:
50 Pages of Specification
9 Pages of Claims (Claims 1-36)
1 Page of Abstract (1st Pg. Of International Application)
8 Page of Formal Drawings (Figs. 1-2, 3, 3A-3D, 4, 4A-4B)
Preliminary Amendment with Sequence Listing
Declaration of Inventorship (2 Pages)
Copy of International Search Report
Diskette Containing Sequence Listing
Sequence Listing Verification
Credit Card Authorization Form for \$1295.00

Further, the Commissioner is authorized to charge Deposit Account No. 20-0778 for any additional fees required. The Commissioner is requested to credit any excess fee paid to Deposit Account No. 20-0778.

Respectfully submitted,


Scott A. Horstemeyer, Reg. No. 34,183

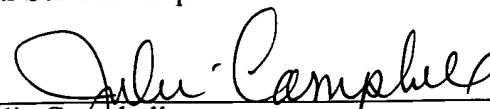
THOMAS, KAYDEN, HORSTEMEYER
& RISLEY, L.L.P.
100 Galleria Parkway, Suite 1750
Atlanta, Georgia 30339
(770) 933-9500

Docket No: **052317-3010**

I hereby certify that all correspondences listed above are being deposited for delivery to the above addressee, with the United States Postal Service **"EXPRESS MAIL POST OFFICE TO ADDRESSEE"** service under 37 CFR §1.10 on the date indicated below:

The envelope has been given U.S. Postal Service "Express Mail Post Office To Addressee" Package # **EV 505166867 US**.

Date: March 28, 2005


Julie Campbell